

City of Park Ridge Fire Alarm Requirements:

- All new construction shall have a manual fire alarm system installed in accordance with NFPA 72 and NFPA 70 requirements.
- Any existing building undergoing remodeling to such an extent that walls and/or ceilings are opened shall have a fire alarm system installed.
- Sprinklered buildings shall have a manual fire alarm system installed.
- Unsprinklered buildings shall have a manual fire alarm with automatic detection installed. Detectors shall be present in all locations.
- For new construction, the Fire Department will not approve a permit until the applicant provides fire alarm plans for review.
- For the installation or modification of a fire alarm system in existing buildings, the Fire Department will not approve the permit until the plans are approved.
- Alarms must be direct connected to the City of Park Ridge alarm board via a Keltron radio transceiver. Contact the City's vendor, Fox Valley Fire and Safety for installation at (847) 695-5990.

The basic submittal package shall contain the following:

1. 4 sets of drawings
2. 4 sets of equipment specifications (cut sheets)
3. 4 sets of battery calculations
4. 4 sets of voltage drop calculations for all notification circuits
5. A copy of the contractor's State of Illinois Department of Professional Regulation business license.

The drawings shall show the following:

1. The name and address of the designer and contractor.
2. A complete building address
3. A scaled floor plan of the building, 1/8 inch preferred, indicating the use of all rooms.
4. The location of all alarm initiating and notification appliances and all controls.
5. A reflected ceiling plan.
6. Wire size and type to be used.
7. A symbol list showing all device types and number of devices.
8. Conformance to NFPA 170 is preferred.
9. A point-to-point wiring diagram showing the length of each run.
10. A riser diagram, if applicable.
11. Smoke detector spacing details.

- 12.12. External connections of modules to the control panel, if applicable.
- 13.13. Sequence of operation.

The Fire Department will conduct a final test of the system prior to approval. The following items will be checked:

1. Conformance to approved plans.
2. All initiating devices—canned smoke shall be used to test smoke detectors.
3. All notification devices.
4. Confirm signal is sent to the 911 Center.
5. Trouble and supervisory signals.
6. Verify that alarm signals are properly annunciated on the panel and approve nomenclature—addressable panels only.

Prior to final approval, the following requirements must be met.

1. Write the number of the electrical circuit feeding the panel on the inside of the panel.
2. Write the installation dates on the batteries.
3. Provide a set of all keys required to operate the system, panel key, pull station reset keys, remote test station keys, etc.
4. Provide a complete list of all device addresses—addressable systems only.

The following items are City of Park Ridge amendments to the International Fire Code.

1. Any building with a fire alarm system (except single-family residences) is required to have a fire department key box.
2. All fire alarm systems must be of the addressable type. Zoned panels are permitted with the approval of the Fire Department.
3. All fire alarm systems shall be directly connected to the City's 911 Center via a Keltron radio transceiver.